## PATENT COOPERATION TREATY

From the INTERNATIONAL PRELIMINARY EXAMINING AUTHORITY



E	Butler, Barker	Bret	tell		PCK SR BROWN LONDON WRITTEN OPINION				
			sts Bridge /15 5JE						
			BRETAGNE	•		(PCT Rule 66)			
						(i O i fidie do)			
	·				Date of mailing (day/month/year)	12.07.2004			
L	B1876	)	agent's file reference		REPLY DUE	within 3 month(s) from the above date of mailing			
þ	CT/GE	NEO E	04400 10	emational filing date (a ).10.2003	11.10.2002				
lai Fa	iematio 04F5/4	nal Pa IA	atent Classification (IPC) or both	national classification a	and IPC				
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ļ									
1.	Thi	s writ	ten opinion is the <b>second</b> dr	rawn un hu thio Inton	notional Day Carl				
2.						Examining Authority.			
and a second to the following items:									
	31		Basis of the opinion Priority						
				brown with the constraint and					
	IV		Lack of unity of invention	on with regard to no	ovelty, inventive step and industrial applicability				
	<b>V</b>	×		r Rule 66.2(a)(ii) with	regard to novelty, in	ventive step or industrial applicability;			
	V)		Certain documents cited	eahbassid sticu stat	ement	7,7,7			
	VII		Certain defects in the Interr	national application					
	VIII		Certain observations on the		ation				
3.	The	The applicant is hereby invited to reply to this opinion.							
	When?		See the time limit indicated above. The applicant may, before the expiration of that time limit, request this Authority to grant an extension, see Rule 66.2(d).						
	How?		By submitting a written reply, accompanied, where appropriate, by amendments, according to Rule 66.3. For the form and the language of the amendments, see Rules 66.8 and 66.9.						
	Also:		For an additional opportunity to submit amendments, see Rule 66.4. For the examiner's obligation to consider amendments and/or arguments, see Rule 66.4 bis. For an informal communication with the examiner, see Rule 66.6.			Rule 66.4 bis.			
	If no r	epty i	s filed, the international prelimin	ary examination report	will be established on ti	he basis of this opinion			
4,	The final date by which the international preliminary examination report must be established according to Rule 69.2 is: 11.02.2005					and the second s			

Name and mailing address of the international preliminary examining authority:



European Patenti Office - F.B. 5818 Patentiaan 2 NL-2280 HV Rijswijk - Fays 8as Tel. +31 70 340 - 2040 Tx: 31 681 spo nl Fax: +31 70 340 - 3016

Authorized Officer

Kolby, L

Formalities officer (incl. extension of time limits) Ter Hear, H

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1.	Basis	of	the	opinion

1.	With regard to the entering office filed"):	iements of the international application (Replacement sheets which have been furnished t in response to an invitation under Article 14 are referred to in this opinion as "originally					
	Description, Pages						
	1-36	as originally filed					
	Claims, Numbers						
	1-48	as originally filed					
ļ	Orawings, Sheets						
1	14-4/4	as originally filed					
<ol><li>With regard to the language, all the elements marked above were available or furnished to this Auth language in which the international application was filed, unless otherwise indicated under this item.</li></ol>							
T	hese elements were	available or furnished to this Authority in the following language: , which is:					
	3-w3- 01 p.	translation furnished for the purposes of the international search (under Rule 23.1(b)). ublication of the international application (under Rule 48.3(b)). translation furnished for the purposes of international preliminary examination (under 5.3).					
3. W	fith regard to any <b>nuc</b> ternational preliminar	cleotide and/or amino acid sequence disclosed in the international application, the yexamination was carried out on the basis of the sequence listing:					
	contained in the international application in written form.						
	filed together with the international application in computer readable form.						
	furnished subsequently to this Authority in written form.						
	furnished subsequently to this Authority in computer readable form.						
	The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.						
	The statement that listing has been fun	the information recorded in computer readable form is identical to the written sequence					
4. The	amendments have	resulted in the cancellation of:					
	the description,	pages:					
	the claims,	Nos.:					
	the drawings,	sheets:					
5. □	This opinion has been established as if (some of) the amendments had not been made, since the been considered to go beyond the disclosure as filed (Rule 70.2(c)).						
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6. Additional observations, if necessary:

V. Reasoned statement under Rule 66.2(a)(ii) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Statement

Novelty (N)

Claims

1-8,11,13,18-20

Inventive step (IS)

Claims

Industrial applicability (IA)

Claims

2. Citations and explanations

see separate sheet

## Re Item V

Reasoned statement with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

1. Reference is made to the following documents:

D1: US-A-3 664 768 (MAYS JOHN C ET AL) 23 May 1972 (1972-05-23)

D2: PATENT ABSTRACTS OF JAPAN vol. 016, no. 498 (M-1325), 15 October 1992 (1992-10-15) -& JP 04 184000 A (MITSUI ENG & SHIPBUILD CO LTD), 30 June 1992 (1992-06-30)

2. The document D1 discloses (the references in parentheses applying to this document) (see figures 1 and 4):

A fluid mover (20) wherein a hollow body (22) provided with a straight-through passage of substantially constant cross section, an inlet (34) at one end of the passage and an outlet (38) at the other end of the passage for the entry and discharge respectively of a working fluid, a nozzle (56) circumscribing and opening into said passage intermediate the inlet and outlet ends (34,38) thereof, an inlet (54) communicating with the nozzle (56) for the introduction of a transport fluid, a mixing chamber being formed within the passage downstream of the nozzle (56).

2.1 The last 5 lines of claim 1, relate to the fact that, the nozzle (16) being so disposed and configured that in use a dispersed droplet flow regime and a supersonic shock wave are created within the mixing chamber (3A) by the introduction and condensation of the transport fluid.

As it is not clear which structural features the above 5 lines of claim 1 would imply, the subject-matter of claim 1 is not distinguished from a fluid mover according to document D1 in a clear way.

Furthermore, as document D1 discloses all identifiable structural features of the independent claim 1 and since the nozzle appears to be suitable for use with e.g. steam operating under the conditions laid down in the above 5 lines of claim 1, the present application does not appear to meet the criteria of Article 33(1) PCT, as the subjectmatter of claim 1 under it's present wording does not seem to be new in the sense of Article 33(2) PCT (see also PCT Guidelines Chapter 12, 12.05).

- 2.2 The same reasoning applies to the subject-matter of the corresponding independent claim 2, which therefore is also considered not new.
- 2.3 The document D2 discloses also all identifiable structural features of the independent claims 1 and 2.
- 3. At least the dependent claims 3-8,11,13 and 18-20 do not contain any features which, in combination with the features of any claim to which they refer, meet the requirements of the PCT in respect of novelty and/or inventive step, see documents D1 and D2 and the corresponding passages cited in the search report.